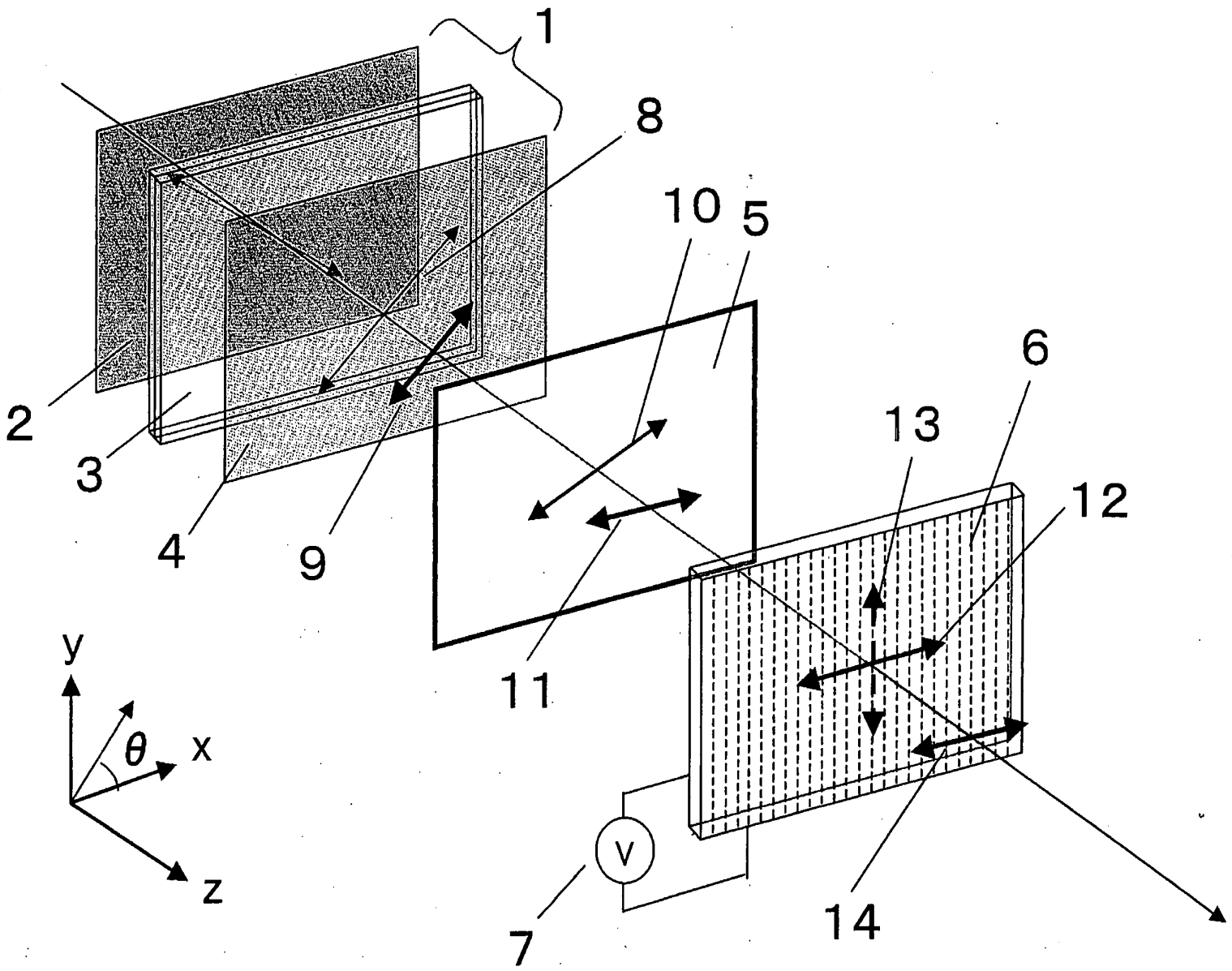
Fig.1



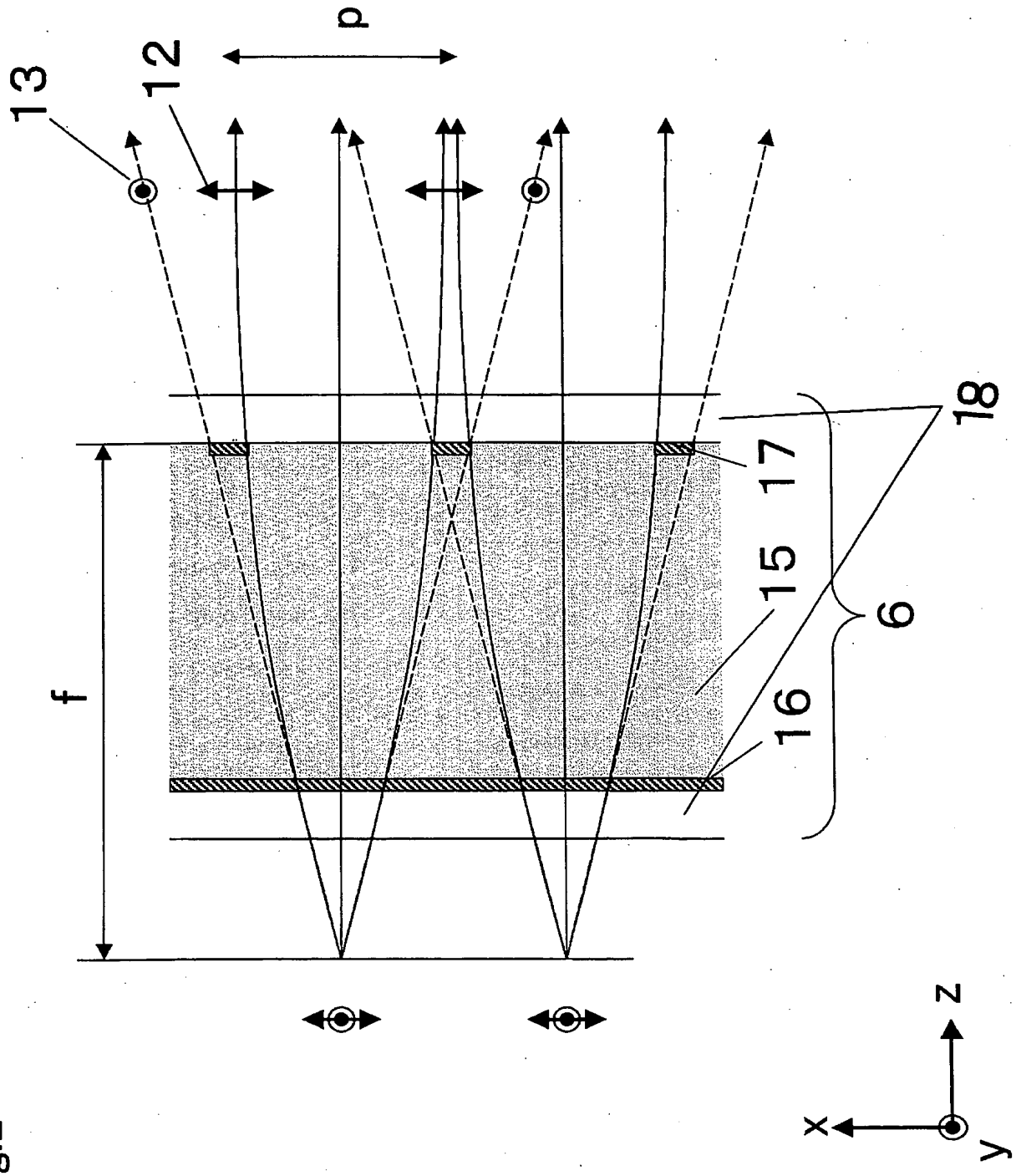


Fig.2

Fig.3

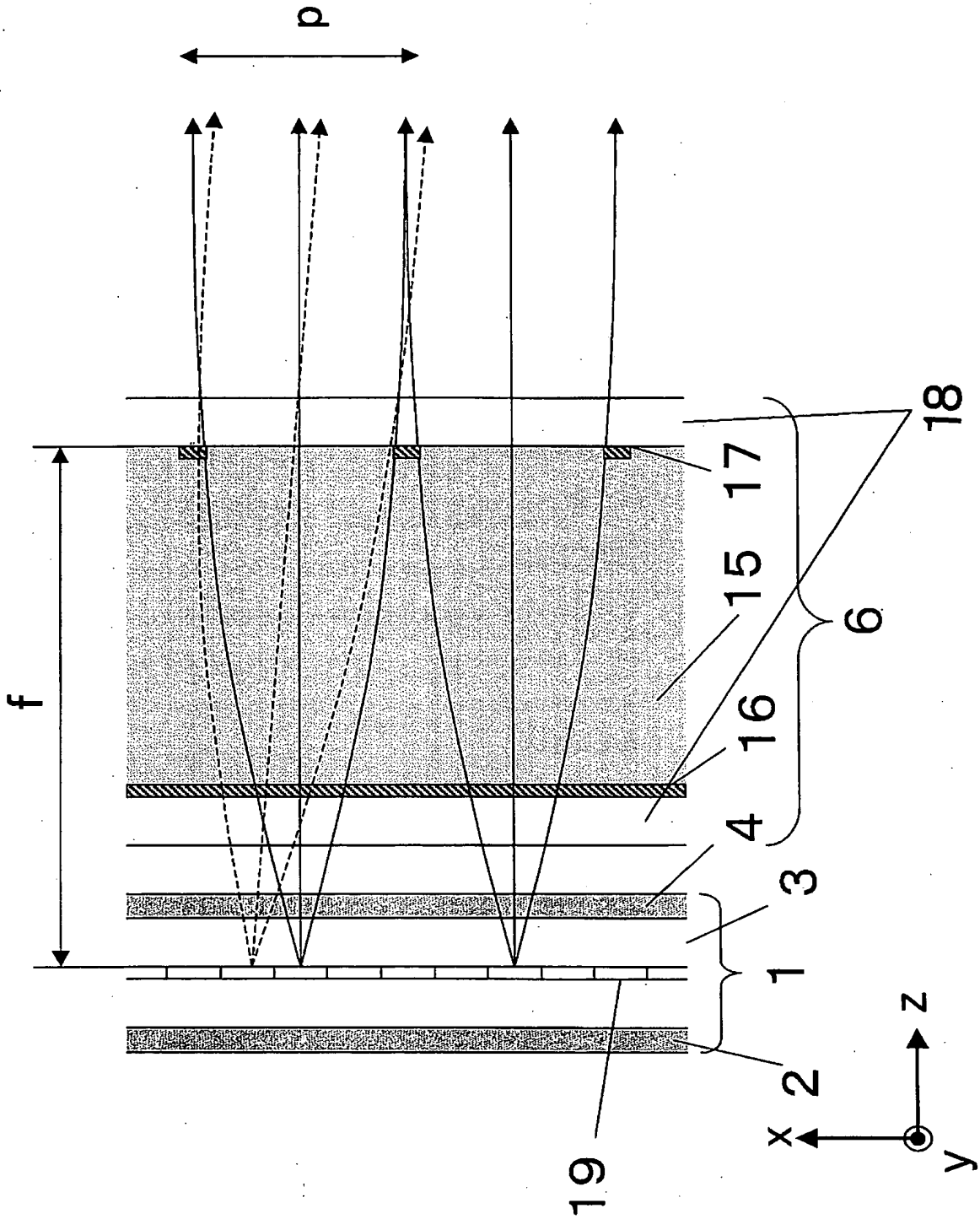


Fig.4

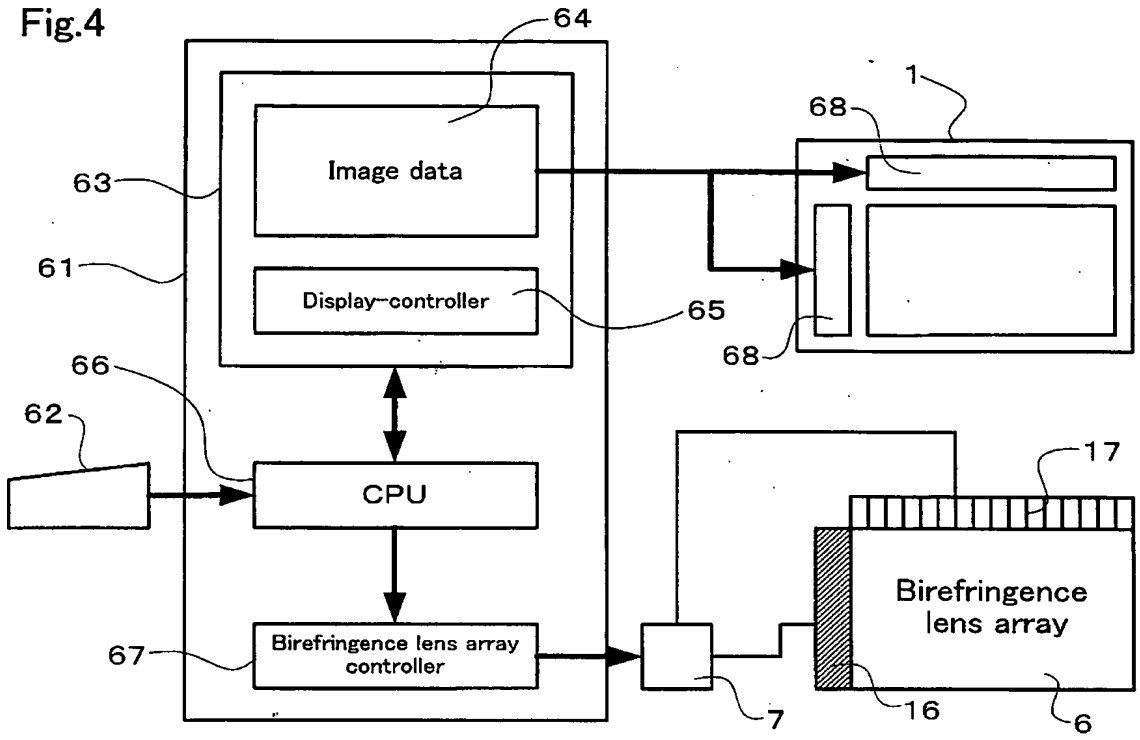

64
1
68
Image data
63
61
Display-controller
65
68
66
62
CPU
17
Birefringence lens array
67
Birefringence lens array controller
7
16
6

Fig.5

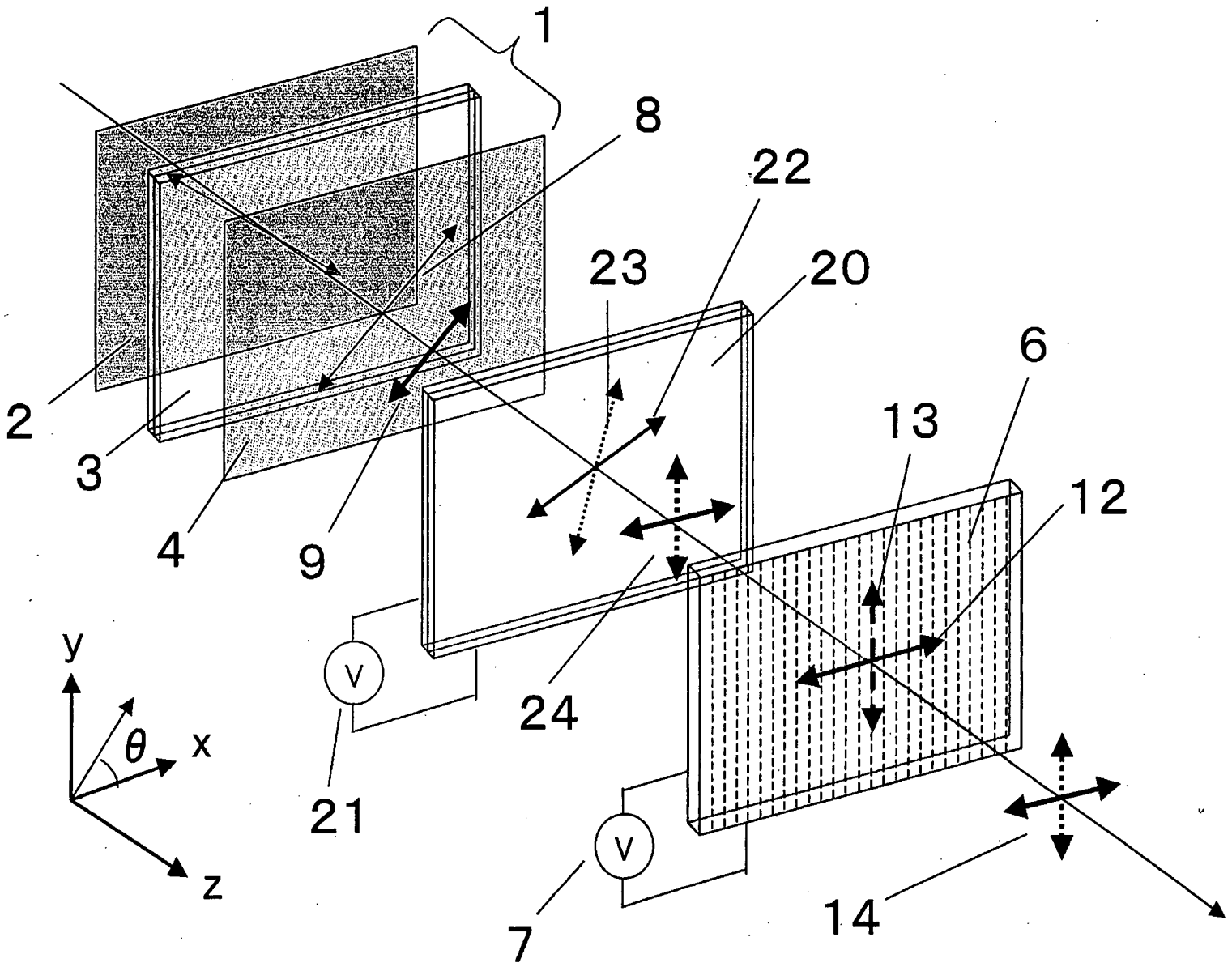


Fig.6

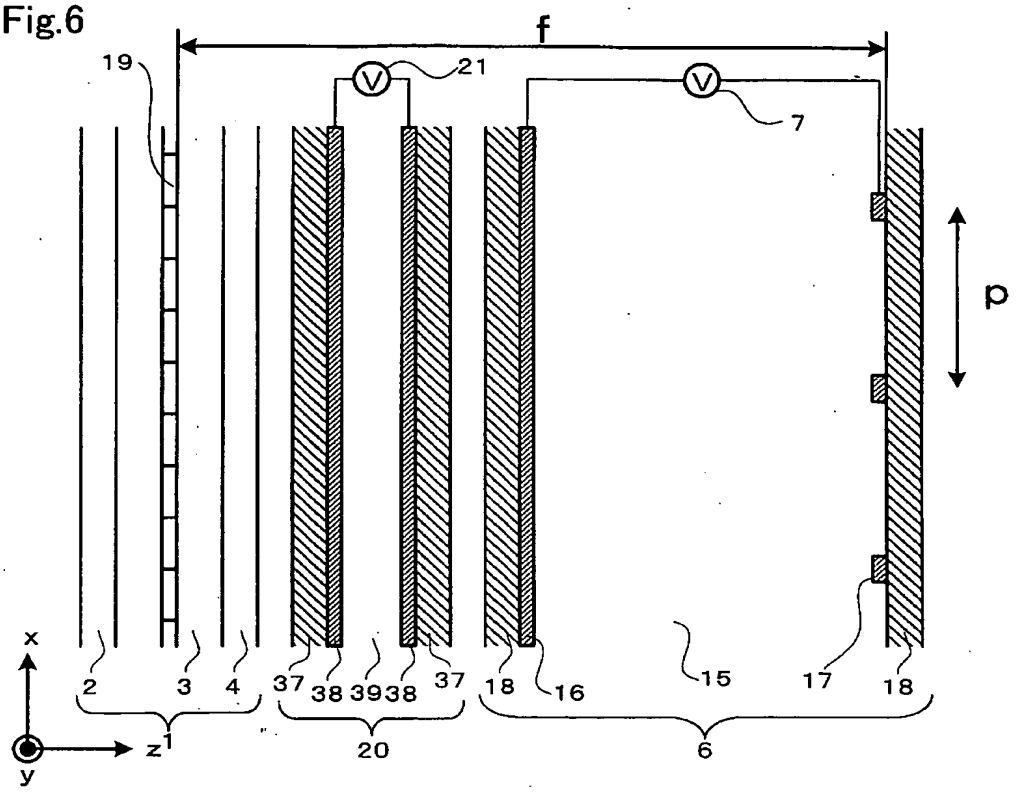


Fig.7

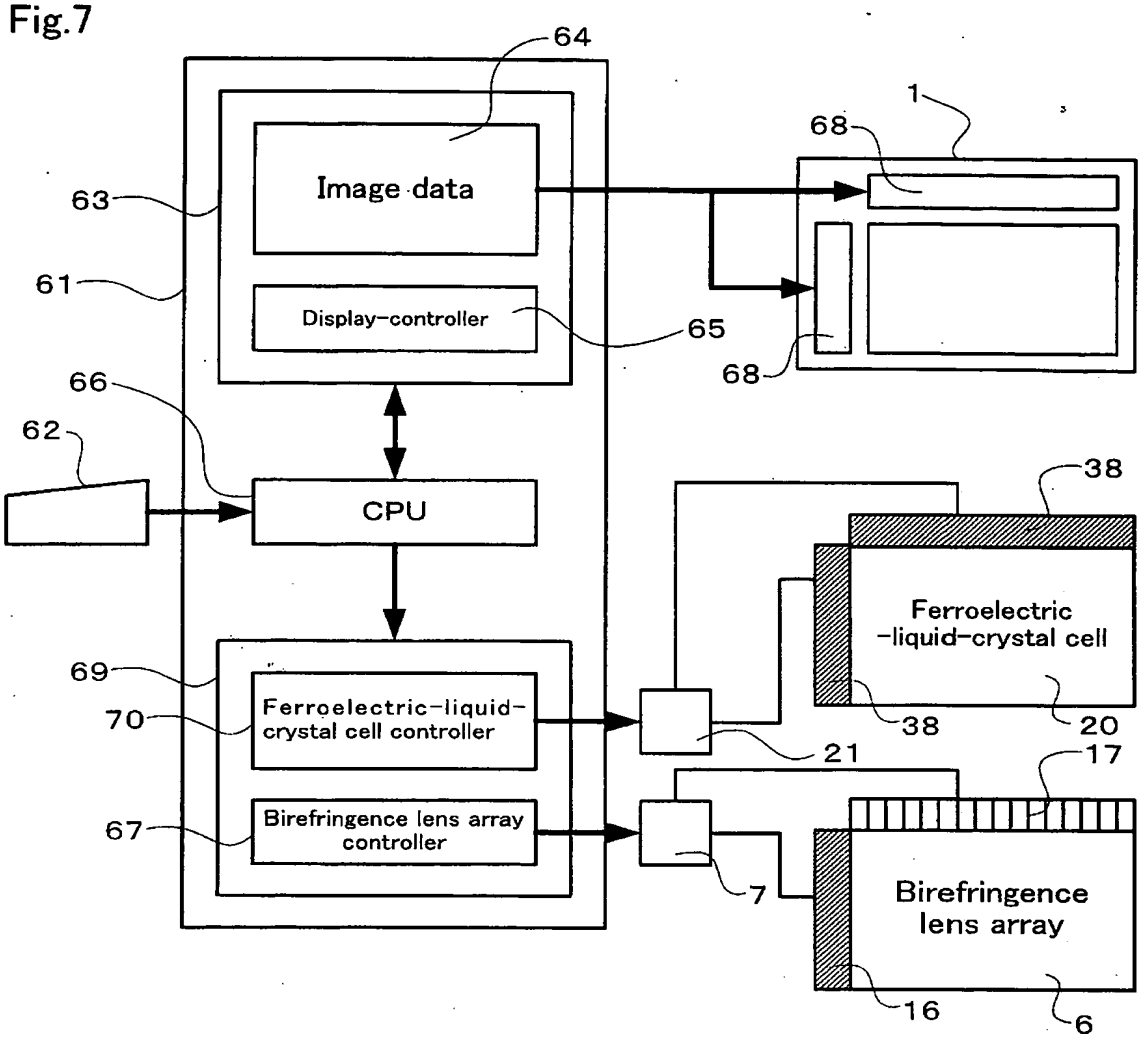

64
1
68
63
Image data
61
Display-controller
65
68
66
62
CPU
38
Ferroelectric
-liquid-crystal cell
69
Ferroelectric-liquid-
crystal cell controller
70
38
20
21
17
67
Birefringence lens array
controller
7
Birefringence
lens array
16
6

Fig.8

	Two-dimensional image display mode 40	Two-dimensional image / three-dimensional image change display mode 41	
		At the time of the two-dimensional image display 42	At the time of the three-dimensional image display 43
Applying voltage unit 21	OFF (uncertainty)	+V (2nd phase axis direction 23)	−V (1st phase axis direction 22)
Output linearly polarization 24	uncertainty	$\theta = 90°$	$\theta = 0°$
Applying voltage unit 7	OFF (Non-lens effect)	ON (Lens effect at polarization direction x-axis: $\theta = 0°$)	
Output linearly polarization 14	uncertainty	$\theta = 90°$ (polarization direction 13) Non-lens effect	$\theta = 0°$ (polarization direction 12) Lens effect

Fig.9

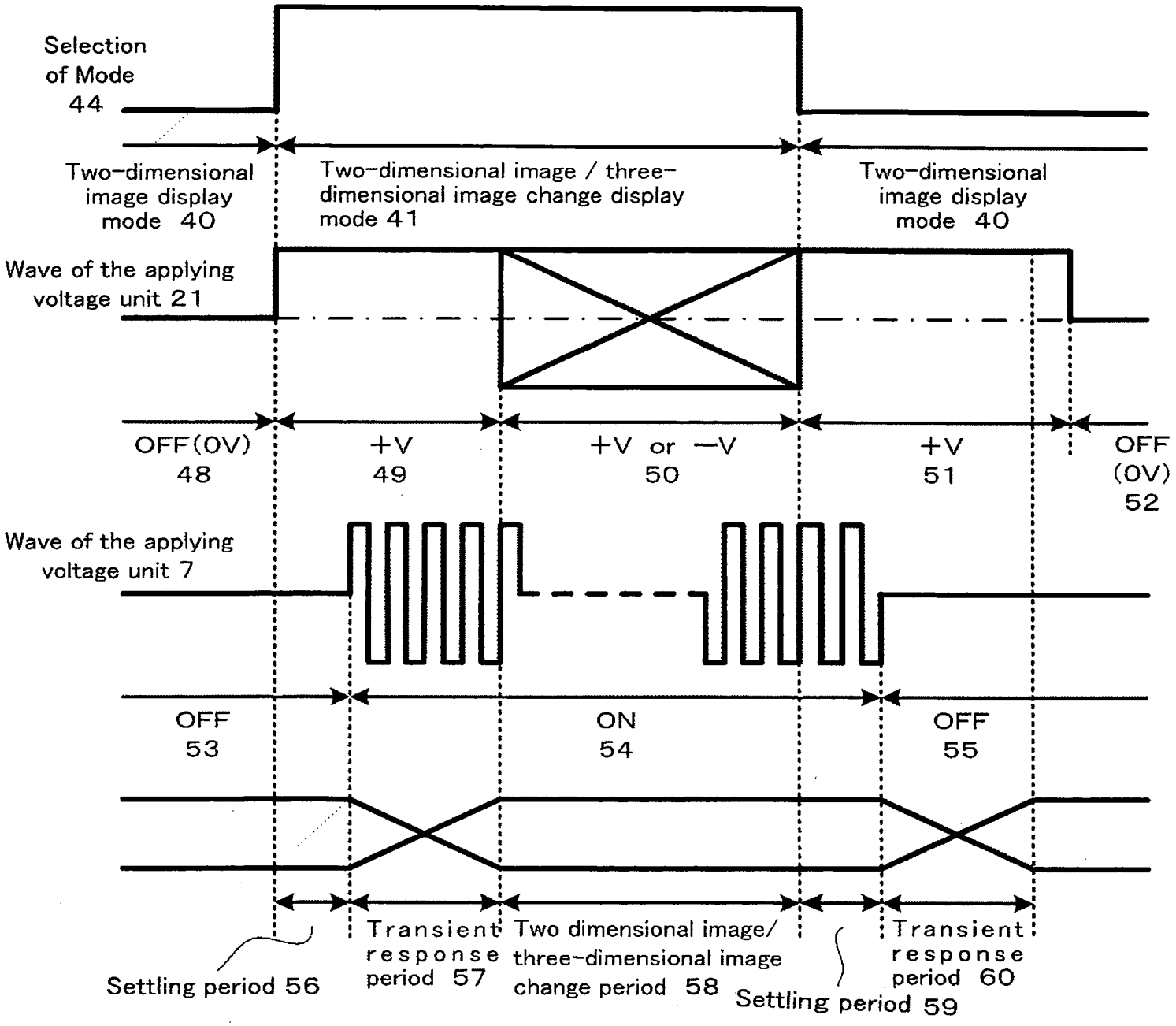

Selection of Mode 44
Two-dimensional image display mode 40
Two-dimensional image / three-dimensional image change display mode 41
Two-dimensional image display mode 40
Wave of the applying voltage unit 21
OFF(0V) 48
+V 49
+V or −V 50
+V 51
OFF (0V) 52
Wave of the applying voltage unit 7
OFF 53
ON 54
OFF 55
Settling period 56
Transient response period 57
Two dimensional image/ three-dimensional image change period 58
Settling period 59
Transient response period 60

Fig.10

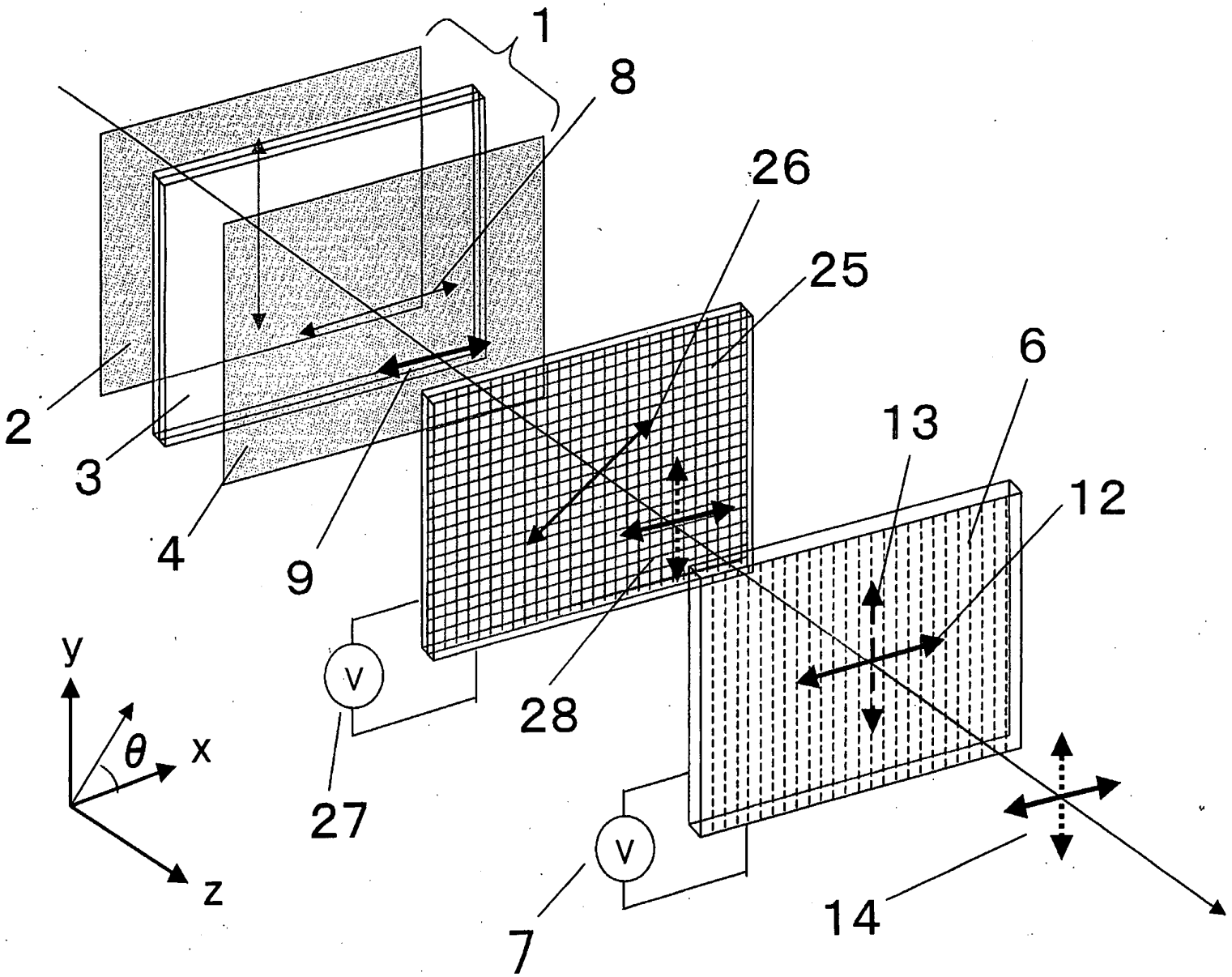


Fig.11

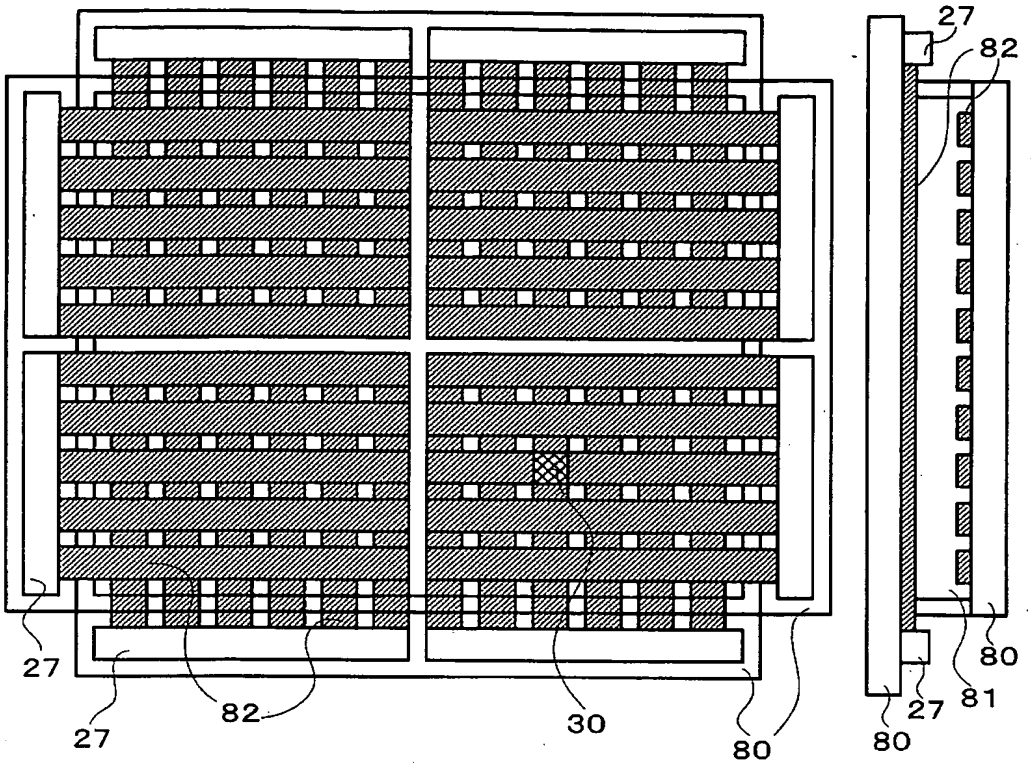


Fig.12

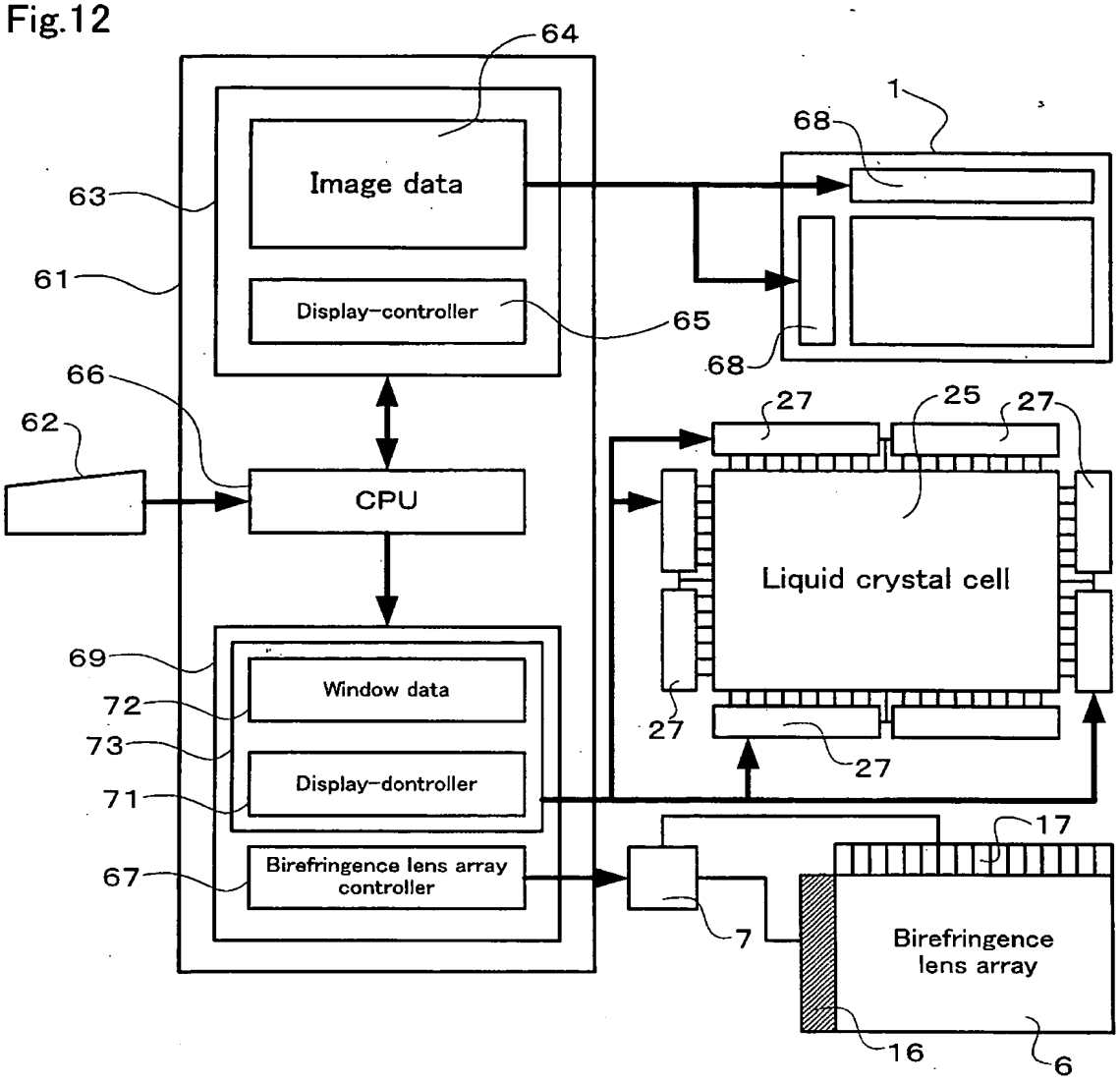

64
Image data
63
61
Display-controller
65
66
62
CPU
69
Window data
72
73
Display-dontroller
71
67
Birefringence lens array controller
1
68
68
27
25
27
Liquid crystal cell
27
27
17
7
Birefringence lens array
16
6

Fig.13

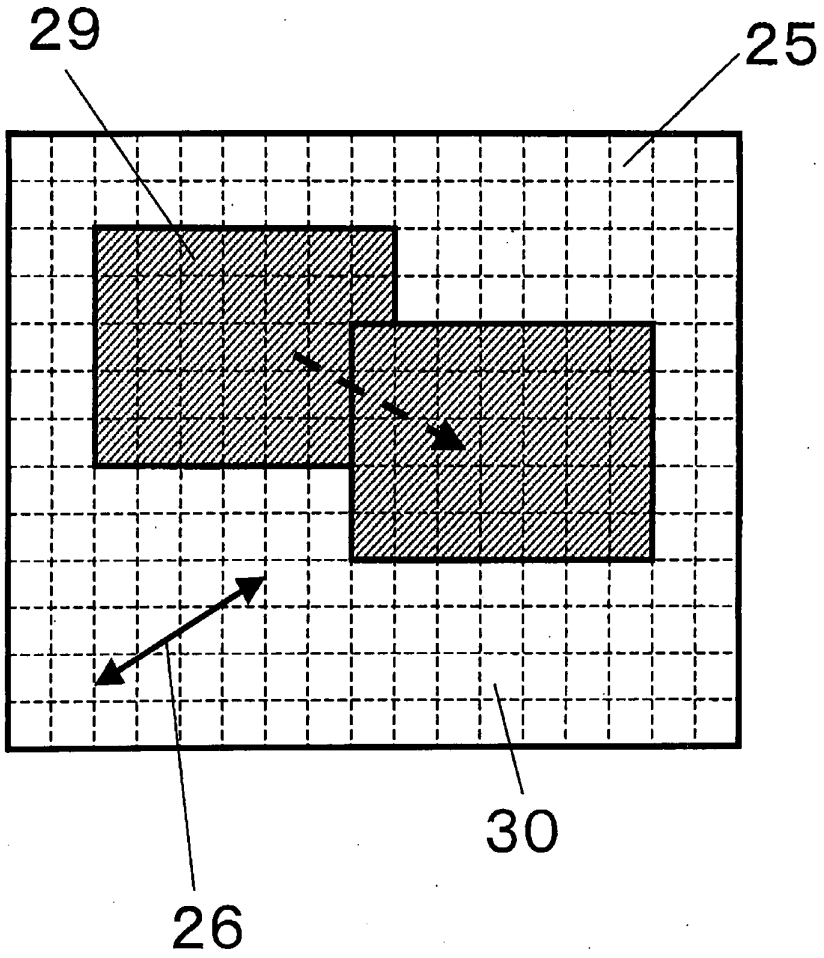


Fig.14

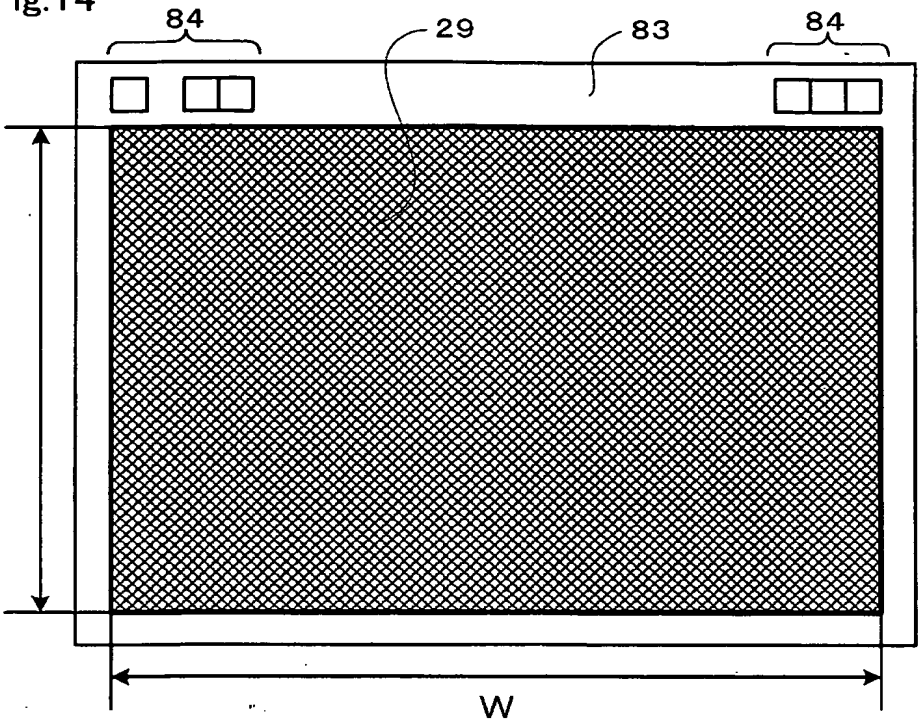


Fig.15

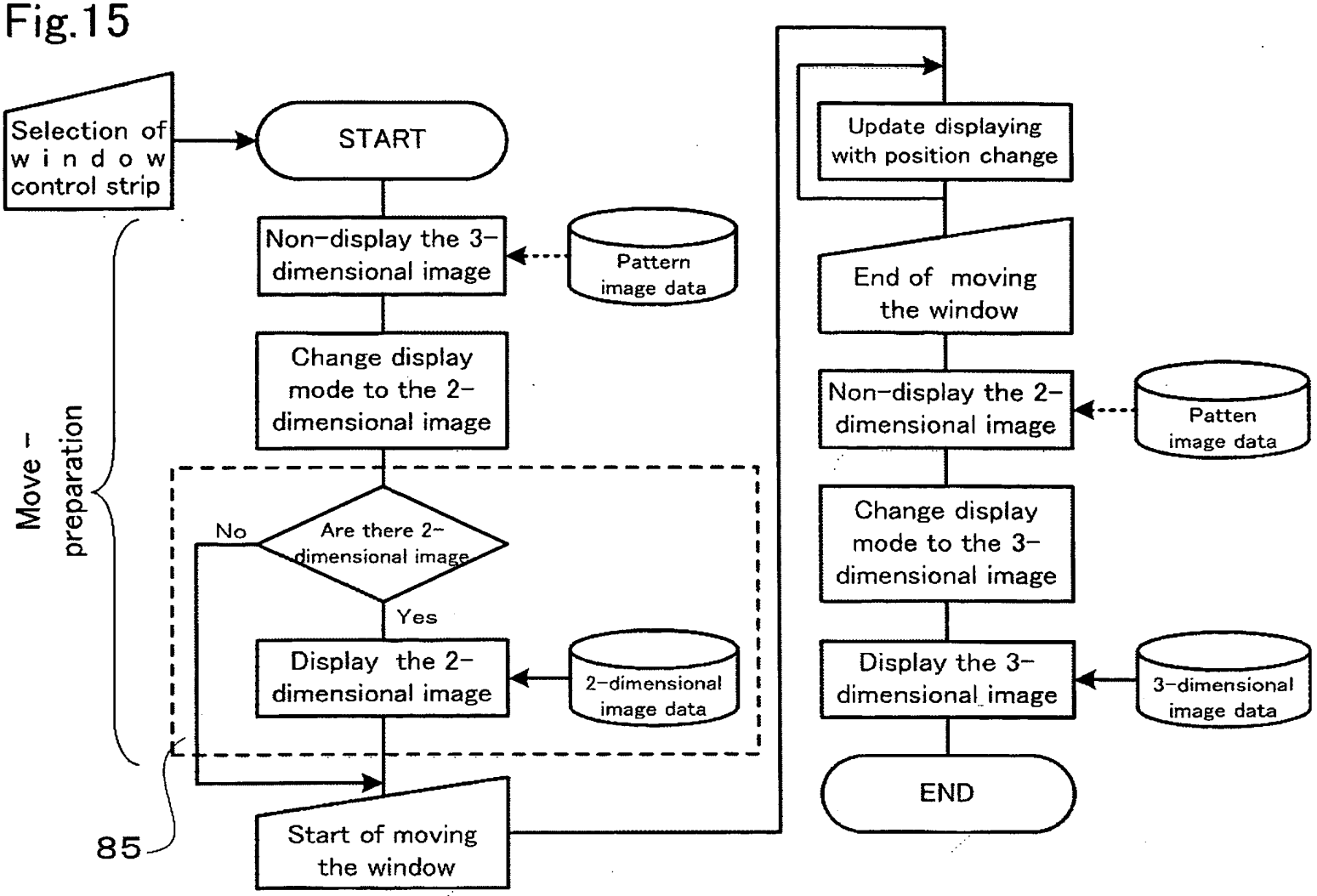

Selection of window control strip
START
Non-display the 3-dimensional image
Pattern image data
Change display mode to the 2-dimensional image
Move - preparation
No
Are there 2-dimensional image
Yes
Display the 2-dimensional image
2-dimensional image data
85
Start of moving the window
Update displaying with position change
End of moving the window
Non-display the 2-dimensional image
Patten image data
Change display mode to the 3-dimensional image
Display the 3-dimensional image
3-dimensional image data
END

Fig.16

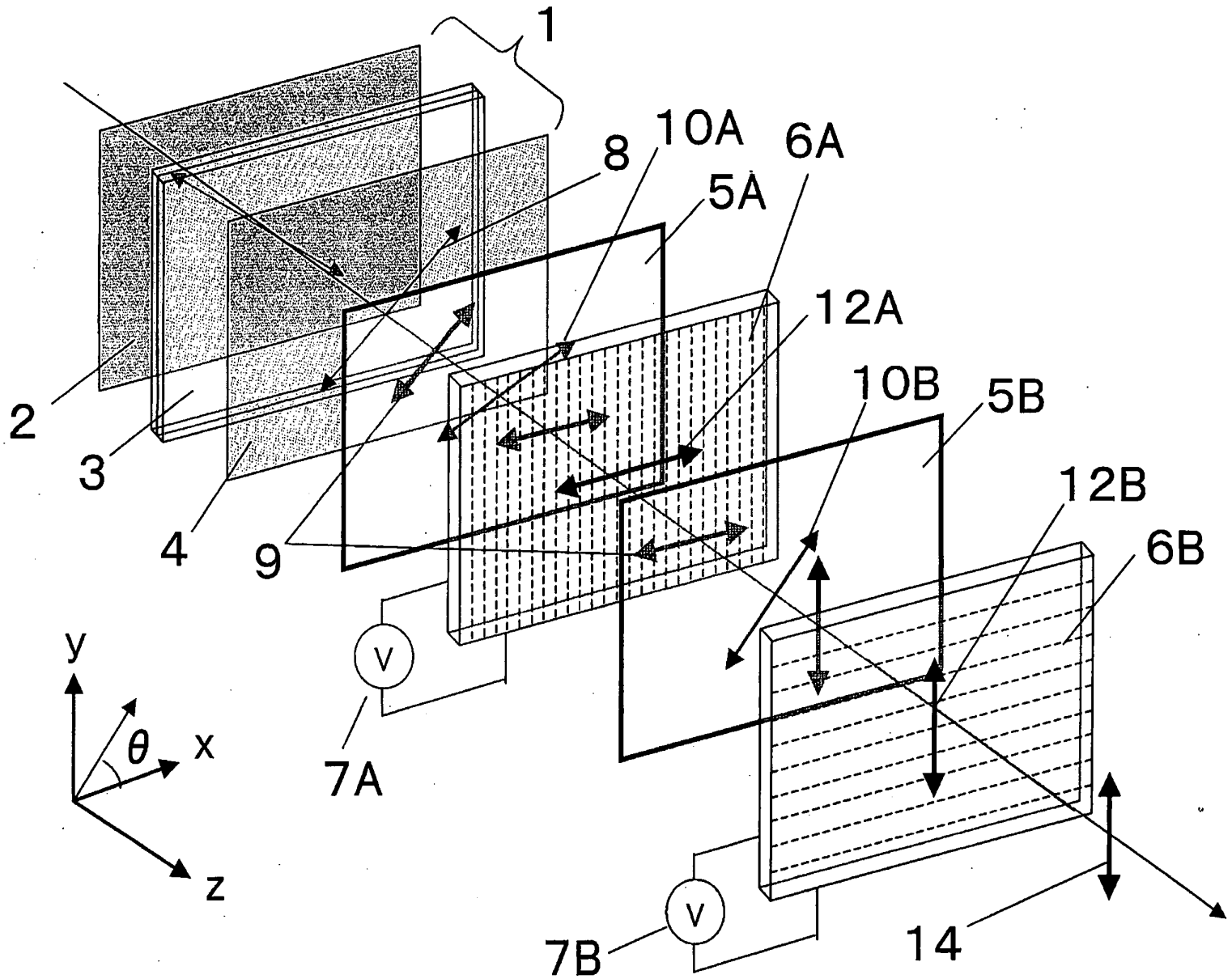


Fig.17

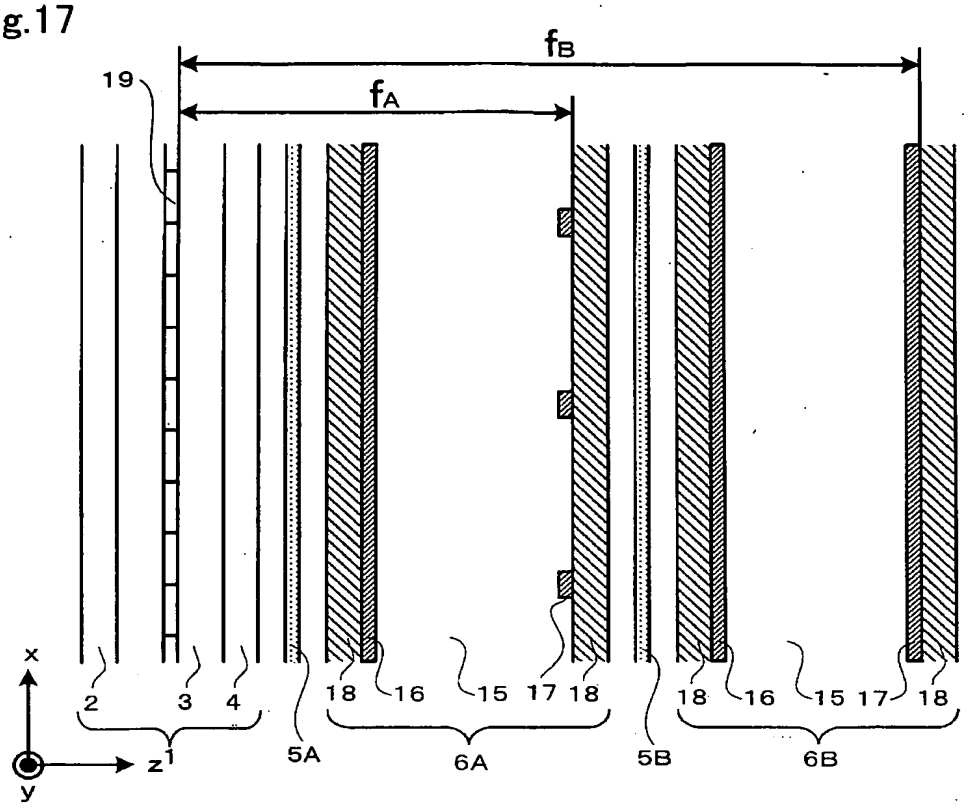
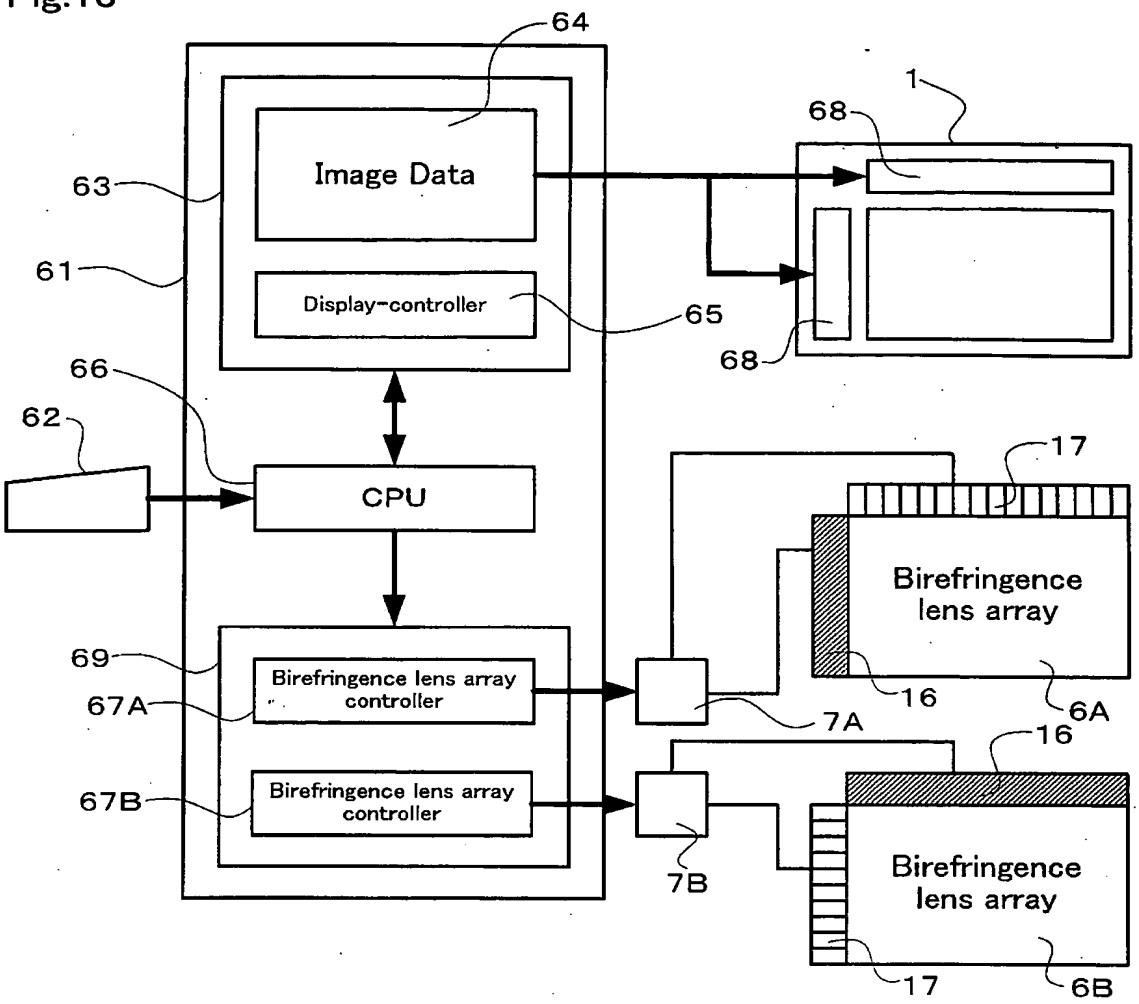


Fig.18


64
Image Data
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61
Display-controller
65
1
68
68
66
62
CPU
17
Birefringence lens array
16
6A
69
Birefringence lens array controller
67A
7A
16
67B
Birefringence lens array controller
7B
Birefringence lens array
17
6B